



Book Project

Call for Book Chapter Proposals



Application of GIS to military terrain analysis

Foreword

by Prof Francis A. Galgano, Associate Professor of Geography, Department of Geography and Environment, Villanova University, USA

This book provides geo-practitioners and military geographers with a framework and understanding for using a geographic information system (GIS) to create an accurate digital representation of past battles. Terrain is a power multiplier and when used properly is a major contributor to success on the battlefield, even when a force is outnumbered. Proper terrain analysis is just as important to success on the battlefield today as it was in ancient times and the Middle Ages. Knowledge of the environment is a prerequisite for making good decisions in war and plays an important role in the success of a campaign. The physical environment can drive or impose strategic and tactical constraints during military operations, and this book will summarize research on the applications of GIS and show how these technologies are used to perform military terrain analysis. In addition, this book will describe how terrain affected the success or failure of historical battles. Topics might include (but are not restricted to):

- Military application of Geographic Information System (GIS);
- Geospatial analysis and modelling for military operations (battlefield simulations);
- Military Terrain analysis;
- Military cartography;
- Historical military landscape reconstruction.
- GIS applications in domain awareness and operations.
- Historical GIS in an applied field of study (security related).

Authors of accepted chapters will be invited to present their work in English at the ICMG24 – The 15th International Conference on Military Geosciences, Western Cape South Africa (June 2024), either as an oral presentation or as a poster.

If you are interested in proposing a chapter on these or any other related topics, please contact Lt Col (Dr) Susan Henrico (susanh@sun.ac.za) / Dr Evert Kleinhans (kleynhans@sun.ac.za).

Timelines and important dates for the book project:

Abstracts should be submitted:	31 May 2023.
Feedback on abstract received:	31 July 2023.
Submission of full chapters:	30 November 2023.
Review process:	TBC with the publisher.